

but their thickness, the Diameters of the Rings are reciprocally in a subduplicate proportion of the thicknesses of the plates. And this shews sufficiently that the Rings depend on both the surfaces of the Glass. They depend on the convex surface because they are more luminous when that surface is quick-silvered over than when it is without Quick-silver. They depend also upon the concave surface, because without that surface a Speculum makes them not. They depend on both surfaces and on the distances between them, because their bigness is varied by varying only that distance. And this dependance is of the same kind with that which the Colours of thin plates have on the distance of the surfaces of those plates, because the bigness of the Rings and their proportion to one another, and the variation of their bigness arising from the variation of the thickness of the Glass, and the orders of their Colours, is such as ought to result from the Propositions in the end of the third Part of this Book, derived from the the Phenomena of the Colours of thin plates set down in the first Part.

There are yet other Phenomena of these Rings of Colours but such as follow from the same Propositions, and therefore confirm both the truth of those Propositions, and the Analogy between these Rings and the Rings of Colours made by very thin plates. I shall subjoyn some of them.

O B S.

When the beam of Light comes from the Speculum, and is reflected down, but to a distance from the center of that Speculum, in the middle of the beam of Light, and the consequence in the Speculum, of Colours fell from the beam of reflected Light, and proceeded more and more, and from the center of the beam, between them, the Colours emerged from the white Speculum; and the white Speculum always fell upon the center of the beam, nating its periphery, parts of an Iris, measured from the middle of the beam of Light, equal to the distance of the beam of Light, measured at the center of the Speculum. And the rays which come from the Speculum in the center, and by consequence, and by consequence, at their entrance